LIST OF CONTENTS

Numbers 1–2

Special Issue: Solar Activity of the Middle Atmosphere

J. Laštovička: Preface 1

L. Floyd, J. Newmark, J. Cook, L. Herring and **D. McMullin**: Solar EUV and UV spectral irradiances and solar indices 3

J. Bochníček and **P. Hejda**: The winter NAO pattern changes in association with solar and geomagnetic activity 17

I. Gabis and **O.A. Troshichev**: QBO cycle identified by changes in height profile of the zonal winds: new regularities 33

K. Labitzke: On the solar cycle–QBO relationship: a summary. 45

U. Langematz, A. Claussnitzer, K. Matthes and **M. Kunze**: The climate during the Maunder Minimum: a simulation with the Freie Universitä Berlin Climate Middle Atmosphere Model (FUB-CMAM) 55

M.P. Baldwin and **T.J. Dunkerton**: The solar cycle and stratosphere–troposphere dynamical coupling . . . 71

J. Laštovička: On the role of solar and geomagnetic activity in long-term trends in the atmosphere–ionosphere system 83

O. Troshichev and **I. Gabis**: Effects of solar UV irradiation on dynamics of ozone hole in Antarctica 93

A. Krivolutsky, A. Kuminov and **T. Vyushkova**: Ionization of the atmosphere caused by solar protons and its influence on ozonosphere of the Earth during 1994–2003 105

J. Laštovička and **P. Križan**: Geomagnetic storms, Forbush decreases of cosmic rays and total ozone at northern higher middle latitudes 119

K. Shibata and **K. Kodera**: Simulation of radiative and dynamical responses of the middle atmosphere to the 11-year solar cycle 125

J. Scheer, E.R. Reisin and **C.H. Mandrini**: Solar activity signatures in mesopause region temperatures and atomic oxygen related airglow brightness at El Leoncito, Argentina. 145

V. Zubov, E. Rozanov, A. Shirochkov, L. Makarova, T. Egorova, A. Kiselev, Yu. Ozolin, I. Karol and **W. Schmutz**: Modeling of the Joule heating influence on the circulation and ozone concentration in the middle atmosphere. 155

K. Georgieva, B. Kirov, D. Atanassov and **A. Boneva**: Impact of magnetic clouds on the middle atmosphere and geomagnetic disturbances 163

G.R. Sonnemann and **M. Grygalashvyly**: Solar influence on mesospheric water vapor with impact on NLCs 177

B. Clemesha, H. Takahashi, D. Simonich, D. Gobbi and **P. Batista**: Experimental evidence for solar cycle and long-term change in the low-latitude MLT region. 191

D. Pancheva, Pl. Mukhtarov, N.J. Mitchell and **H.G. Muller**: Empirical model of the dynamics in the mesosphere and lower thermosphere region over the UK, including solar and geomagnetic activity. . . . 197

A. Ondrášková and **A.A. Krivolutsky**: Solar cosmic rays and changes in the polar middle atmosphere and ionosphere 211

Number 3

Y.A. Liou, A.G. Pavelyev and **J. Wickert**: Observation of the gravity waves from GPS/MET radio occultation data. 219

Ch. Jacobi, Yu.I. Portnyagin, E.G. Merzlyakov, T.V. Solovjova, N.A. Makarov and **D. Kürschner**: A long-term comparison of mesopause region wind measurements over Eastern and Central Europe 229

N.A. Kilifarska and **J.D. Haigh**: The impact of solar variability on the middle atmosphere in present-day and pre-industrial atmospheres 241

G. Dutta, B. Bapiraju, T.S.P.L.N. Prasad, P. Balasubrahmanyam and **H.A. Basha**: Vertical wave number spectra of wind fluctuations in the troposphere and lower stratosphere over Gadanki, a tropical station . 251

L.G. Evers and **H.W. Haak**: The detectability of infrasound in The Netherlands from the Italian volcano Mt. Etna 259

D.K. Sharma, J. Rai, M. Israil and **P. Subrahmanyam**: Diurnal, seasonal and latitudinal variations of ionospheric temperatures of the topside F region over the Indian region during solar minimum (1995–1996) 269

C.-H. Wen, J.F. Doherty, J.D. Mathews and **D. Janches**: Meteor detection and non-periodic bursty interference removal for Arecibo data 275

C.-C. Wu and **R.P. Lepping**: Relationships for predicting magnetic cloud-related geomagnetic storm intensity 283

C. David, S. Bekki, N. Berdunov, M. Marchand, M. Snels and **G. Mégie**: Classification and scales of Antarctic polar stratospheric clouds using wavelet decomposition 293

Number 4

C. Amory-Mazaudier, A. Kobea, P. Vila, A. Achy-Séka, E. Blanc, K. Boka, J. Bouvet, J.-F. Cécile, Y. Cohen, J.-J. Curto, M. Dukhan, V. Doumouya, O. Fambitakoye, T. Farges, C. Goutelard, E. Guisso, R. Hanbaba, E. Houngninou, E. Kone, P. Lassudrie-Duchesne, C. Lathuillere, Y. Leroux, M. Menvielle, E. Obrou, M. Petitdidier, S.O. Ogunade, C.A. Onwumechili, D. Rees, E. Sambou, M. Sow and **J. Vassal**: On equatorial geophysics studies: a review on the IGRGEA results during the last decade 301

A. Meza, M.A. Van Zele, C. Brunini and **I.R. Cabassi**: Vertical total electron content and geomagnetic perturbations at mid- and sub-auroral southern latitudes during geomagnetic storms 315

Q. Zhou, J.D. Mathews, Q. Du and **C.A. Miller**: A preliminary investigation of the pseudo-spectral method numerical solution of the Perkins instability equations in the homogeneous TEC case 325

D.J. Della-Rose: A graphical interpretation of the electrical conductivity tensor. 337

S.M. Smith, J. Friedman, S. Raizada, C. Tepley, J. Baumgardner and **M. Mendillo**: Evidence of mesospheric bore formation from a breaking gravity wave event: simultaneous imaging and lidar measurements . . . 345

R.W. Schunk, H.G. Demars and **J.J. Sojka**: Propagating polar wind jets 357

G. Jee, R.W. Schunk and **L. Scherliess**: Comparison of IRI-2001 with TOPEX TEC measurements 365

A.V. Pavlov and **N.M. Pavlova**: Mechanism of the post-midnight winter night-time enhancements in NmF2 over Millstone Hill during 14–17 January 1986 381

V.A. Mullayarov, R.R. Karimov, V.I. Kozlov and **I.N. Poddelsky**: Possible weekly variations in the thunderstorm activity 397

M.N. Vlasov, M.C. Kelley and **E.A. Gerken**: On the energy distribution of suprathermal electrons produced by HF heating in the F_2 region 405

S.R. Sharma, M. Fernando and **C. Gomes**: Signatures of electric field pulses generated by cloud flashes . 413

B.E. Jones, K.S. Jones, K.J. Rambo, V.A. Rakov, J. Jerald and **M.A. Uman**: Oxide reduction during triggered-lightning fulgurite formation 423

Number 5

R.P. Kane: North–south asymmetry of some solar indices 429

A. Lüdi and **A. Magun**: Refractivity structure constant and length scales from mm-wave propagation in the stably stratified troposphere 435

J.-M. Perrin, G. Thuillier, M. Ferhrenbach and **F. Huppert**: A comparison between radiative transfer calculation and pyranometer data gathered at Observatoire de Haute Provence 449

J. Tu, J.L. Horwitz and **T.E. Moore**: Simulating the cleft ion fountain at polar perigee altitudes 465

G.I. Pugacheva, A.A. Gusev, U.B. Jayanthi, N.J. Schuch and **W.N. Spjeldvik**: Cusp region radiation belts in the dayside magnetosphere 479

H.G. Demars and **R.W. Schunk**: Effect of the theta aurora on the polar thermosphere 489

D.E. Siskind, M.H. Stevens and **C.R. Englert**: A model study of global variability in mesospheric cloudiness 501

O.K. Obrou, J.O. Adeniyi, A.T. Kobea and **B. Moukassa**: Electron density profile parameters $B0$ and $B1$ response during a magnetic disturbance at equatorial latitude 515

Number 6

E.M. Blanter, M.G. Shnirman and **J.-L. Le Mouël**: Solar variability: evolution of correlation properties. . . 521

E.G. Merzlyakov, Y.I. Portnyagin, C. Jacobi, I. Fedulina, N.J. Mitchell, B.L. Kashcheyev, A.N. Oleynikov and **A.H. Manson**: On the day-to-day wind and semidiurnal tide variations at heights of the mid-latitude summer mesopause: zonal wavenumber estimations and its consequences, case-study in 1998 535

G. Sátori, E. Williams and **V. Mushtak**: Response of the Earth–ionosphere cavity resonator to the 11-year solar cycle in X-radiation 553

G.I. Gordienko, V.M. Aushev, I.N. Fedulina, S.S. Ryazapova and **M.G. Shepherd**: Observation of the F2-layer variability from the "Alma-Ata" observatory 563

S. Kumar, H. Chandra and **S. Sharma**: Geomagnetic storms and their ionospheric effects observed at the equatorial anomaly crest in the Indian Region. 581

A. Gholipour, C. Lucas, B.N. Araabi and **M. Shafiee**: Solar activity forecast: spectral analysis and neurofuzzy prediction 595

Q.H. Chang, G.T. Yang and **S.S. Gong**: Lidar observations of the middle atmospheric temperature characteristics over Wuhan in China 605

J. Scheer, E.R. Reisin, P.P. Batista, B.R. Clemesha and **H. Takahashi**: Detection of meteor radar wind signatures related to strong short-duration day-to-day airglow transitions at sites 2600 km apart 611

S. Jade, M.S.M. Vijayan, V.K. Gaur, T.P. Prabhu and **S.C. Sahu**: Estimates of precipitable water vapour from GPS data over the Indian subcontinent 623

D. Siingh, R.P. Singh, A.K. Kamra, P.N. Gupta, R. Singh, V. Gopalakrishnan and **A.K. Singh**: Review of electromagnetic coupling between the Earth's atmosphere and the space environment 637

O. Havnes and **F. Sigernes**: On the influence of background dust on radar scattering from meteor trails . 659

Number 7

R.G. Rastogi: Magnetic storm effects in H and D components of the geomagnetic field at low and middle latitudes 665

Y. Hobara and **M. Parrot**: Ionospheric perturbations linked to a very powerful seismic event 677

L. Zhu, J.J. Sojka and **R.W. Schunk**: Active ionospheric role in small-scale aurora structuring 687

R. Pirjola: Averages of geomagnetically induced currents (GIC) in the Finnish 400 kV electric power transmission system and the effect of neutral point reactors on GIC 701

A. Bartzokas, H.D. Kambezidis, S. Darula and **R. Kittler**: Comparison between winter and summer sky-luminance distribution in Central Europe and in the Eastern Mediterranean. 709

J.F. Lemaire, S.G. Batteux and **I.N. Slypen**: The influence of a southward and northward turning of the interplanetary magnetic field on the geomagnetic cut-off of cosmic rays, on the mirror points positions of geomagnetically trapped particles, and on their rate of precipitations in the atmosphere 719

E. Séran and **J.-C. Cerisier**: Current layers: Influence of the finite size and non-uniform current distribution 729

J. Xu, A.K. Smith and **Q. Wu**: A retrieval algorithm for satellite remote sensing of the nighttime global distribution of the sodium layer. 739

Short Communication

S.M. Silverman: The earliest recorded aurora in North America since European colonization. 749

Numbers 8–9

Special Issue: Solar and Heliospheric Influences on the Earth's Weather and Climate

M. Füllekrug, N.B. Crosby and **J. Lilensten**: Solar and heliospheric influences on the Earth's weather and climate. 753

A. Zanini, M. Storini, L. Visca, E.A.M. Durisi, F. Fasolo, M. Perosino, O. Borla and **O. Saavedra**: Neutron spectrometry at high mountain observatories 755

R.G. Harrison: Columnar resistance changes in urban air. 763

K.L. Aplin and **R.A. McPheat**: Absorption of infra-red radiation by atmospheric molecular cluster-ions . . 775

H. Gleisner, P. Thejll, M. Stendel, E. Kaas and **B. Machenhauer**: Solar signals in tropospheric re-analysis data: Comparing NCEP/NCAR and ERA40. 785

H. Weng: The influence of the 11 yr solar cycle on the interannual–centennial climate variability 793

T. Neubert, T.H. Allin, E. Blanc, T. Farges, C. Haldoupis, A. Mika, S. Soula, L. Knutsson, O. van der Velde, R.A. Marshall, U. Inan, G. Sátori, J. Bór, A. Hughes, A. Collier, S. Laursen and **I.L. Rasmussen**: Co-ordinated observations of transient luminous events during the EuroSprite2003 campaign 807

H. Rothkaehl and **M. Parrot**: Electromagnetic emissions detected in the topside ionosphere related to the human activity 821

Number 10

L. Tong, Y. Hiraki, K. Nanbu and **H. Fukunishi**: Release of positive charges producing sprite halos 829

E. Echer, M.V. Alves and **W.D. Gonzalez**: A statistical study of magnetic cloud parameters and geoeffectiveness 839

Q. Li, Y. Gao and **D. Han**: Analysis on magnetic storms reported by Beijing observatory 853

A.V. Pavlov and **N.M. Pavlova**: Causes of the mid-latitude NmF2 winter anomaly at solar maximum. . . . 862

K. Satheesan and **B.V. Krishna Murthy**: Modulation of tropical tropopause by wave disturbances 878

P.R. Nair, K. Parameswaran, A. Abraham and **S. Jacob**: Wind-dependence of sea-salt and non-sea-salt aerosols over the oceanic environment 884

S. Gladysz, M. Redfern and **B.W. Jones**: Shadow bands observed during the total solar eclipse of 4 December 2002, by high-resolution imaging 899

K. Kudela and **M. Storini**: Cosmic ray variability and geomagnetic activity: A statistical study 907

V.M. Krasnov and **Y.V. Drobzheva**: The acoustic field in the ionosphere caused by an underground nuclear explosion 913

V.M. Sorokin and **O.A. Pokhotelov**: Gyrotropic waves in the mid-latitude ionosphere 921

J. MacDougall and **D.C. Eadie**: The shape of midlatitude scintillation irregularities 931

Number 11

T. Killeen: Editorial 937

W. Lotko: Publisher's Note 939

P. Keckhut, C. Cagnazzo, M.-L. Chanin, C. Claud and **A. Hauchecorne**: The 11-year solar-cycle effects on the temperature in the upper-stratosphere and mesosphere: Part I—Assessment of observations 940

J. Hampson, P. Keckhut, A. Hauchecorne and **M.L. Chanin**: The effect of the 11-year solar-cycle on the temperature in the upper-stratosphere and mesosphere: Part II numerical simulations and the role of planetary waves 948

H.G. Mayr, J.G. Mengel, E.R. Talaat, H.S. Porter and **K.L. Chan**: Mesospheric non-migrating tides generated with planetary waves: I. Characteristics 959

H.G. Mayr, J.G. Mengel, E.R. Talaat, H.S. Porter and **K.L. Chan**: Mesospheric non-migrating tides generated with planetary waves: II. Influence of gravity waves 981

V. Kushwah, V. Singh, B. Singh and **M. Hayakawa**: Ultralow frequency (ULF) magnetic field anomalies observed at Agra and their relation to moderate seismic activities in Indian region 992

A.N. Afanasiev: The energy spectrum of spacecraft radio signals in the caustic shadow zone of the Sun: A new diagnostic of the solar coronal plasma 1002

S.P. Kshevetskii and **N.M. Gavrilov**: Vertical propagation, breaking and effects of nonlinear gravity waves in the atmosphere 1014

T. Tantisattayakul, K. Masugata, I. Kitamura and **K. Kontani**: Broadband VHF sources locating system using arrival-time differences for mapping of lightning discharge process. 1031

G. Jee, R.W. Schunk and **L. Scherliess**: On the sensitivity of total electron content (TEC) to upper atmospheric/ionospheric parameters. 1040

Number 12

Special Issue: Space Weather and RF Communications: Monitoring and Modelling

Lj.R. Cander and **B. Zolesi**: Space weather and RF communications: Monitoring and modelling 1053

B.W. Reinisch, X. Huang, I.A. Galkin, V. Paznukhov and **A. Kozlov**: Recent advances in real-time analysis of ionograms and ionospheric drift measurements with digisondes 1054

M. Pezzopane and **C. Scotto**: The INGV software for the automatic scaling of foF2 and MUF(3000)F2 from ionograms: A performance comparison with ARTIST 4.01 from Rome data 1063

N. Jakowski, V. Wilken, S. Schlueter, S.M. Stankov and **S. Heise**: Ionospheric space weather effects monitored by simultaneous ground and space based GNSS signals 1074

M. Materassi and **C.N. Mitchell**: A simulation study into constructing of the sample space for ionospheric imaging 1085

A. Belehaki, Lj. Cander, B. Zolesi, J. Bremer, C. Juren, I. Stanislawska, D. Dialetis and **M. Hatzopoulos**: DIAS Project: The establishment of a European digital upper atmosphere server 1092

B. Forte: Optimum detrending of raw GPS data for scintillation measurements at auroral latitudes 1100

R. Leitinger: Development of a database for the verification of trans-ionospheric remote sensing systems 1110

Lj.R. Cander and **S.J. Mihajlovic**: Ionospheric spatial and temporal variations during the 29–31 October 2003 storm 1118

R. Liu, Z. Xu, J. Wu, S. Liu, B. Zhang and **G. Wang**: Preliminary studies on ionospheric forecasting in China and its surrounding area 1129

I. Tsagouri, B. Zolesi, A. Belehaki and **Lj.R. Cander**: Evaluation of the performance of the real-time updated simplified ionospheric regional model for the European area 1137

A. Krankowski, W. Kosek, L.W. Baran and **W. Popinski**: Wavelet analysis and forecasting of VTEC obtained with GPS observations over European latitudes 1147

Number 13

Special Issue: Meteors and the Mesopause

J.S. Friedman and **D. Janches**: Special issue on meteors and the mesopause 1157

D.O. ReVelle: The Mesopause as a physical penetration boundary. 1159

L.P. Dyrud, L. Ray, M. Oppenheim, S. Close and **K. Denney**: Modelling high-power large-aperture radar meteor trails 1171

D.A. Mendis, W.-H. Wong, M. Rosenberg and **G. Sorasio**: Micrometeoroid flight in the upper atmosphere: Electron emission and charging. 1178

C.-H. Wen, J.F. Doherty and **J.D. Mathews**: Adaptive filtering for the separation of incoherent scatter and meteor signals for Arecibo observation data 1190

D. Janches and **J.L. Chau**: Observed diurnal and seasonal behavior of the micrometeor flux using the Arecibo and Jicamarca radars 1196

S. de la Peña, S.K. Avery, J.P. Avery, E. Lau and **D. Janches**: Wind measurements of MLT region using the Platteville, CO MEDAC 50 MHz meteor radar 1211

J. Xu and **A.K. Smith**: Evaluation of processes that affect the photochemical timescale of the sodium layer 1216

J. Höffner and **J.S. Friedman**: The mesospheric metal layer topside: Examples of simultaneous metal observations 1226

A.C. Aikin, J.M. Grebowsky, J.P. Burrows, J. Correira and **W.D. Pesnell**: Temporal evolution of the vertical content of metallic ion and neutral species. 1238

Q. Zhou, J. Friedman, S. Raizada, C. Tepley and **Y.T. Morton**: Morphology of nighttime ion, potassium and sodium layers in the meteor zone above Arecibo. 1245

Number 14

V.M. Sorokin, V.M. Chmyrev and **A.K. Yaschenko**: Theoretical model of DC electric field formation in the ionosphere stimulated by seismic activity 1259

V.M. Sorokin, N.V. Isaev, A.K. Yaschenko, V.M. Chmyrev and **M. Hayakawa**: Strong DC electric field formation in the low latitude ionosphere over typhoons 1269

M.Z. de Artigas and **A.G. Elias**: The equatorial stratospheric QBO and geomagnetic activity 1280

O. Mendes Jr. and **M.O. Domingues**: Lightning path simulation based on the stepped leader: Electrical conductivity effects 1287

P. Bencze: On the long-term change of ionospheric parameters 1298

T. Gulyaeva and **I. Stanislawska**: Night–day imprints of ionospheric slab thickness during geomagnetic storm. 1307

J. Loureiro, J.T. Mendonça, A.L. Brinca, R. Fonseca, L.O. Silva and **I. Vieira**: Creation and expansion of a magnetized plasma bubble for plasma propulsion 1315

A. Kazantzidis, A.F. Bais, D.S. Balis, E. Kosmidis and **C.S. Zerefos**: Sensitivity of solar UV radiation to ozone and temperature profiles at Thessaloniki (40.5°N, 23°E), Greece 1321

M. El-Metwally: Sunshine and global solar radiation estimation at different sites in Egypt 1331

M.T.Y. Tadros, M. El-Metwally and **A.B. Hamed**: A comparative study on SPCTRAL2, SPCTR-1881 and SMARTS2 models using direct normal solar irradiance in different bands for Cairo and Aswan, Egypt . . 1343

P. Kolarž, J. Šekarić, B.P. Marinković and **D.M. Filipović**: Correlation between some of the meteorological parameters measured during the partial solar eclipse, 11 August 1999 1357

M.J.A. Bolzan, Y. Sahai, P.R. Fagundes, R.R. Rosa, F.M. Ramos and **J.R. Abalde**: Intermittency analysis of geomagnetic storm time-series observed in Brazil 1365

C. Amory-Mazaudier: Comments on the paper "Long term correlation between solar and geomagnetic activity" by E. Echer, W.D. Gonzales, A.L.C. Gonzalez, A. Prestes, L.E.A. Vieira, A. Dal Lago, F.L. Guarnieri, N.J. Schuch. 1373

E. Echer, W.D. Gonzalez, A.L.C. Gonzalez, A. Prestes, L.E.A. Vieira, A. Dal Lago, F.L. Guarnieri and **N.J. Schuch**: Reply to comments on the paper "Long term correlation between solar and geomagnetic activity" 1375

Number 15

M. Mendillo, C.-L. Huang, X. Pi, H. Rishbeth and **R. Meier**: The global ionospheric asymmetry in total electron content 1377

Yu.P. Koshelkov, G.R. Zakharov and **B.M. Kiryushov**: Space and time variations of temperature trends in the Arctic stratosphere 1388

D.A. Degenstein, R.L. Gattinger, N.D. Lloyd, A.E. Bourassa, J.T. Wiensz and **E.J. Llewellyn**: Observations of an extended mesospheric tertiary ozone peak 1395

G.D. Parker: Timing patterns in event lists: Recurrent geomagnetic storms 1403

G.J. Fraser: The antecedents and subsequent development of scientific radar in New Zealand 1411

J.W. MacDougall and **P.T. Jayachandran**: Sporadic E at cusp latitudes 1419

D.V. Sarafopoulos: Cases for which the Earth's magnetosphere does not act as a "low-pass filter" 1427

D.K. Sharma, R. Chand, M. Israil and **J. Rai**: Variation of electron and ion temperatures ratio over the Indian region during the period 1995–1999 as measured by SROSS-C2 satellite 1443

V. Sgrigna, L. Carota, L. Conti, M. Corsi, A.M. Galper, S.V. Koldashov, A.M. Murashov, P. Picozza, R. Scrimaglio and **L. Stagni**: Correlations between earthquakes and anomalous particle bursts from SAMPEX/PET satellite observations 1448

Number 16

H.A. Bekerat, R.W. Schunk, L. Scherliess and **A. Ridley**: Comparison of satellite ion drift velocities with AMIE deduced convection patterns 1463

A.J.G. Baumgaertner, A.J. McDonald, G.J. Fraser and **G.E. Plank**: Long-term observations of mean winds and tides in the upper mesosphere and lower thermosphere above Scott Base, Antarctica 1480

R.P. Singh, R.P. Patel, K. Singh and **A.K. Singh**: Observation of pulsing hiss at low latitudes 1497

I.A. Barghouthi and **A.R. Barakat**: A Monte Carlo study of the generalized Coulomb Milne problem 1504

R.D. Sharma and **P.D. Dao**: A potential experiment for in-situ measurement of atmospheric temperature and atomic oxygen density in the 90–150 km altitude range by a Raman Lidar 1519

G.M. Giavis, H.D. Kambezidis, A.K. Basdekis, N. Sifakis, Z. Toth, A.D. Adamopoulos and **D. Zevgolis**: Cases of aerosol optical depth estimation in the Athens area, Greece 1524

A.A. Svoboda, J.M. Forbes and **S. Miyahara**: A space-based climatology of diurnal MLT tidal winds, temperatures and densities from UARS wind measurements 1533

H.K.M. Tanaka: Cosmogenic ion production rate in the high–middle–low altitude troposphere and its influence on the terrestrial cloud properties 1544

A.M. Hamza: On the relevance of fractal diffusion to auroral backscatter 1559

M.A. Cabrera, R.G. Ezquer and **S.M. Radicella**: Predicted and measured slant ionospheric electron content 1566

A. Kilcik: Regional sun–climate interaction 1573

Á Mika, C. Haldoupis, R.A. Marshall, T. Neubert and **U.S. Inan**: Subionospheric VLF signatures and their association with sprites observed during *EuroSprite-2003* 1580

R. Orús, M. Hernández-Pajares, J.M. Juan and **J. Sanz**: Improvement of global ionospheric VTEC maps by using kriging interpolation technique 1598

A.J. Carrasco, I.S. Batista and **M.A. Abdu**: The prereversal enhancement in the vertical drift for Fortaleza and the sporadic E layer. 1610

D.V. Blagoveshchensky, V.M. Vystavnoi and **M.A. Sergeeva**: HF radio propagation through the auroral oval during substorms 1618

S. Talpos, N. Rimbu and **D. Borsan**: Solar forcing on the ^{7}Be-air concentration variability at ground level 1626

L. Rivas Soriano, F. de Pablo and **C. Tomas**: Ten-year study of cloud-to-ground lightning activity in the Iberian Peninsula 1632

Numbers 17–18

Special Issue: 7th Latin-American Conference on Space Geophysics, Atibaia, SP, Brazil, March 29–April 2, 2004

B. Clemesha, C. Mandrini, P. Batista, I. Batista and **A. Chian**: Preface. 1641

M.A. Abdu, I.S. Batista, A.J. Carrasco and **C.G.M. Brum**: South Atlantic magnetic anomaly ionization: A review and a new focus on electrodynamic effects in the equatorial ionosphere. 1643

M. Stepanova, E. Antonova and **O. Troshichev**: Prediction of D_{st} variations from Polar Cap indices using time-delay neural network 1658

C.M. Denardini, M.A. Abdu, E.R. de Paula, J.H.A. Sobral and **C.M. Wrasse**: Seasonal characterization of the equatorial electrojet height rise over Brazil as observed by the RESCO 50 MHz back-scatter radar. 1665

J.R. Cecatto, A.C. Soares, F.C.R. Fernandes, F.R.H. Madsen, M.C. Andrade and **H.S. Sawant**: Radio emission observed in decimetric waves associated with the onset of CMEs. 1674

F.J.R. Simões Júnior, M.V. Alves and **F.B. Rizzato**: Energy mode distribution: An analysis of the ratio of anti-Stokes to Stokes amplitudes generated by a pair of counterpropagating Langmuir waves 1680

G.A. Mansilla, M. Mosert and **R.G. Ezquer**: Seasonal variation of the total electron content, maximum electron density and equivalent slab thickness at a South-American station. 1687

K.H. Tsui and **M.D. Tavares**: Self-similar evolution of the two-dimensional cylindrical magnetohydrodynamic flux rope 1691

J.F. Valdés-Galicia, A. Lara and **B. Mendoza**: The solar magnetic flux mid-term periodicities and the solar dynamo 1697

E. Correia and **R.V. de Souza**: Identification of solar sources of major geomagnetic storms 1702

B. Meléndez Oliveros, R. Martín Hernández and **L. Palacio Suárez**: On the onset and meridional propagation of the ionospheric F2-region response to geomagnetic storms. 1706

A. Borgazzi and **A. Costa**: Determination of intensity variations along coronal loops 1715

V.G. Ledenev, R.A. Sych, Y. Yan, Q. Fu, G. Huang and **H. Wu**: Fine structure of microwave emission in the 25 August 1999 event and its association with the magnetic field fine structure 1720

E.R. Rodríguez Flores, R. Gámez Díaz and **R.E. Rodríguez Taboada**: Spatial pattern of photospheric granules in a sunspot neighborhood 1728

M.L. Luoni, C.H. Mandrini, S. Dasso, L. van Driel-Gesztelyi and **P. Démoulin**: Tracing magnetic helicity from the solar corona to the interplanetary space 1734

G. Cristiani, G. Martínez, C.H. Mandrini, C.G. Giménez de Castro, M.G. Rovira, P. Kaufmann and **H. Levato**: Submillimeter-wave and Hα observations of the event on 28 November, 2001 1744

N.B. Trivedi, M.A. Abdu, B.M. Pathan, S.L.G. Dutra, N.J. Schuch, J.C. Santos and **L.M. Barreto**: Amplitude enhancement of SC(*H*) events in the South Atlantic anomaly region 1751

A.M. Gulisano, S. Dasso, C.H. Mandrini and **P. Démoulin**: Magnetic clouds: A statistical study of magnetic helicity 1761

A.F. Medeiros, H. Takahashi, R.A. Buriti, K.M. Pinheiro and **D. Gobbi**: Atmospheric gravity wave propagation direction observed by airglow imaging in the South American sector 1767

J. Fechine, A.F. Medeiros, R.A. Buriti, H. Takahashi and **D. Gobbi**: Mesospheric bore events in the equatorial middle atmosphere 1774

R.A. Sych, G.K. Matafonov, A.Ju. Belinskaya and **N.J. Ferreira**: The periodic spatial–temporal characteristics variations of the total ozone content 1779

H. Pérez-de-Tejada: Comparative outline of the region of interaction of the solar wind with the Ionosphere of Venus and Mars 1786

C. Bertucci, C. Mazelle and **M.H. Acuña**: Interaction of the solar wind with Mars from Mars Global Surveyor MAG/ER observations 1797

R. Carboni and **F. Frutos-Alfaro**: Computer simulation of convective plasma cells 1809

M. Stepanova, T. Vucina-Parga, E. Antonova, I. Ovchinnikov and **Y. Yermolaev**: Variation of the plasma turbulence in the central plasma sheet during substorm phases observed by the interball/tail satellite . . 1815

L.F. Morales, S. Dasso, D.O. Gómez and **P. Mininni**: Hall effect on magnetic reconnection at the Earth's magnetopause 1821

O. Mendes Jr., M. Oliveira Domingues, A. Mendes da Costa and **A.L. Clúa de Gonzalez**: Wavelet analysis applied to magnetograms: Singularity detections related to geomagnetic storms 1827

E.L. Rempel and **A.C.-L. Chian**: Alfvén intermittency in space plasmas 1837

M. José Alves Bolzan, R. Roberto Rosa, F. Manuel Ramos, P. Roberto Fagundes and **Y. Sahai**: Generalized thermostatistics and wavelet analysis of solar wind and proton density variability 1843

R.A. Miranda, E.L. Rempel, A.C.-L. Chian and **F.A. Borotto**: Intermittent chaos in nonlinear wave–wave interactions in space plasmas 1852

A. Ojeda, A. Calzadilla, B. Lazo, K. Alazo and **S. Savio**: Analysis of behavior of solar wind parameters under different IMF conditions using nonlinear dynamics techniques 1859

D.O. Gómez and **P. Mininni**: Numerical simulations of MHD dynamos 1865

A.S. de Assis: Auroral electron acceleration induced by Cherenkov damped waves 1872

M.V. Stepanova, E.E. Antonova, A.J. Foppiano, T.J. Rosenberg and **E.M. Ovalle**: Intermittency of riometer auroral absorption observed at South Pole 1876

Contents for Volume 67 1885

Author Index 1895

AUTHOR INDEX

Abalde, J.R., 1365
Abdu, M.A., 1610, 1643, 1665, 1751
Abraham, A., 884
Achy-Séka, A., 301
Acuña, M.H., 1797
Adamopoulos, A.D., 1524
Adeniyi, J.O., 515
Afanasiev, A.N., 1002
Aikin, A.C., 1238
Alazo, K., 1859
Allin, T.H., 807
Alves, M.V., 839, 1680
Amory-Mazaudier, C., 301, 1373
Andrade, M.C., 1674
Antonova, E., 1658, 1815
Antonova, E.E., 1876
Aplin, K.L., 775
Araabi, B.N., 595
Atanassov, D., 163
Aushev, V.M., 563
Avery, J.P., 1211
Avery, S.K., 1211

Bais, A.F., 1321
Balasubrahmanyam, P., 251
Baldwin, M.P., 71
Balis, D.S., 1321
Bapiraju, B., 251
Barakat, A.R., 1504
Baran, L.W., 1147
Barghouthi, I.A., 1504
Barreto, L.M., 1751
Bartzokas, A., 709
Basdekis, A.K., 1524
Basha, H.A., 251
Batista, I., 1641
Batista, I.S., 1610, 1643
Batista, P., 191, 1641
Batista, P.P., 611
Batteux, S.G., 719
Baumgaertner, A.J.G., 1480
Baumgardner, J., 345
Bekerat, H.A., 1463
Bekki, S., 293
Belehaki, A., 1092, 1137
Belinskaya, A.Ju., 1779
Bencze, P., 1298
Berdunov, N., 293
Bertucci, C., 1797
Blagoveshchensky, D.V., 1618
Blanc, E., 301, 807
Blanter, E.M., 521
Bochníček, J., 17
Boka, K., 301
Bolzan, M.J.A., 1365
Boneva, A., 163
Bór, J., 807
Borgazzi, A., 1715
Borla, O., 755
Borotto, F.A., 1852
Borsan, D., 1626
Bourassa, A.E., 1395
Bouvet, J., 301
Bremer, J., 1092
Brinca, A.L., 1315
Brum, C.G.M., 1643
Brunini, C., 315
Buriti, R.A., 1767, 1774
Burrows, J.P., 1238

Cabassi, I.R., 315
Cabrera, M.A., 1566
Cagnazzo, C., 940
Calzadilla, A., 1859
Cander, Lj., 1092
Cander, Lj.R., 1053, 1118, 1137
Carboni, R., 1809
Carota, L., 1448
Carrasco, A.J., 1610, 1643
Cecatto, J.R., 1674
Cécile, J.-F., 301
Cerisier, J.-C., 729
Chan, K.L., 959, 981
Chand, R., 1443
Chandra, H., 581
Chang, Q.H., 605
Chanin, M.-L., 940
Chanin, M.L., 948
Chau, J.L., 1196
Chian, A., 1641
Chian, A.C.-L., 1837, 1852
Chmyrev, V.M., 1259, 1269
Claud, C., 940
Claussnitzer, A., 55
Clemesha, B., 191, 1641
Clemesha, B.R., 611
Close, S., 1171
Clúa de Gonzalez, A.L., 1827
Cohen, Y., 301
Collier, A., 807
Conti, L., 1448
Cook, J., 3
Correia, E., 1702
Correira, J., 1238
Corsi, M., 1448
Costa, A., 1715
Cristiani, G., 1744
Crosby, N.B., 753
Curto, J.-J., 301

Dal Lago, A., 1375
Dao, P.D., 1519
Darula, S., 709
Dasso, S., 1734, 1761, 1821
David, C., 293
de Artigas, M.Z., 1280
de Assis, A.S., 1872
de la Peña, S., 1211
de Pablo, F., 1632
de Paula, E.R., 1665
de Souza, R.V., 1702
Degenstein, D.A., 1395
Della-Rose, D.J., 337
Demars, H.G., 357, 489
Démoulin, P., 1734, 1761
Denardini, C.M., 1665
Denney, K., 1171
Dialetis, D., 1092
Doherty, J.F., 275, 1190
Domingues, M.O., 1287
Doumouya, V., 301
Drobzheva, Y.V., 913
Du, Q., 325
Dukhan, M., 301
Dunkerton, T.J., 71
Durisi, E.A.M., 755
Dutra, S.L.G., 1751
Dutta, G., 251
Dyrud, L.P., 1171

Eadie, D.C., 931
Echer, E., 839, 1375
Egorova, T., 155
El-Metwally, M., 1331, 1343
Elias, A.G., 1280
Englert, C.R., 501
Evers, L.G., 259
Ezquer, R.G., 1566, 1687

doi: S1364-6826(05)00326-3

Fagundes, P.R., 1365
Fambitakoye, O., 301
Farges, T., 301, 807
Fasolo, F., 755
Fechine, J., 1774
Fedulina, I., 535
Fedulina, I.N., 563
Ferhrenbach, M., 449
Fernandes, F.C.R., 1674
Fernando, M., 413
Ferreira, N.J., 1779
Filipović, D.M., 1357
Floyd, L., 3
Fonseca, R., 1315
Foppiano, A.J., 1876
Forbes, J.M., 1533
Forte, B., 1100
Fraser, G.J., 1411, 1480
Friedman, J., 345, 1245
Friedman, J.S., 1157, 1226
Frutos-Alfaro, F., 1809
Fu, Q., 1720
Fukunishi, H., 829
Füliekrug, M., 753

Gabis, I., 33, 93
Galkin, I.A., 1054
Galper, A.M., 1448
Gámez Díaz, R., 1728
Gao, Y., 853
Gattinger, R.L., 1395
Gaur, V.K., 623
Gavrilov, N.M., 1014
Georgieva, K., 163
Gerken, E.A., 405
Gholipour, A., 595
Giavis, G.M., 1524
Giménez de Castro, C.G., 1744
Gladysz, S., 899
Gleisner, H., 785
Gobbi, D., 191, 1767, 1774
Gomes, C., 413
Gómez, D.O., 1821, 1865
Gong, S.S., 605
Gonzalez, A.L.C., 1375
Gonzalez, W.D., 839, 1375
Gopalakrishnan, V., 637
Gordienko, G.I., 563
Goutelard, C., 301
Grebowsky, J.M., 1238
Grygalashvyly, M., 177
Guarnieri, F.L., 1375
Guisso, E., 301
Gulisano, A.M., 1761
Gulyaeva, T., 1307
Gupta, P.N., 637
Gusev, A.A., 479

Haak, H.W., 259
Haigh, J.D., 241
Haldoupis, C., 807, 1580
Hamed, A.B., 1343
Hampson, J., 948
Hamza, A.M., 1559
Han, D., 853
Hanbaba, R., 301
Harrison, R.G., 763
Hatzopoulos, M., 1092
Hauchecorne, A., 940, 948
Havnes, O., 659
Hayakawa, M., 992, 1269
Heise, S., 1074
Hejda, P., 17
Hernández-Pajares, M., 1598
Herring, L., 3
Hiraki, Y., 829
Hobara, Y., 677
Höffner, J., 1226
Horwitz, J.L., 465
Houngninou, E., 301
Huang, C.-L., 1377
Huang, G., 1720
Huang, X., 1054
Hughes, A., 807
Huppert, F., 449

Inan, U., 807
Inan, U.S., 1580
Isaev, N.V., 1269
Israil, M., 269, 1443

Jacob, S., 884
Jacobi, C., 535
Jacobi, Ch., 229
Jade, S., 623
Jakowski, N., 1074
Janches, D., 275, 1157, 1196, 1211
Jayachandran, P.T., 1419
Jayanthi, U.B., 479
Jee, G., 365, 1040
Jerald, J., 423
Jones, B.E., 423
Jones, B.W., 899
Jones, K.S., 423
José Alves Bolzan, M., 1843
Juan, J.M., 1598
Juren, C., 1092

Kaas, E., 785
Kambezidis, H.D., 709, 1524
Kamra, A.K., 637
Kane, R.P., 429
Karimov, R.R., 397
Karol, I., 155
Kashcheyev, B.L., 535
Kaufmann, P., 1744
Kazantzidis, A., 1321
Keckhut, P., 940, 948
Kelley, M.C., 405
Kilcik, A., 1573
Kilifarska, N.A., 241
Killeen, T., 937
Kirov, B., 163
Kiryushov, B.M., 1388
Kiselev, A., 155
Kitamura, I., 1031
Kittler, R., 709
Knutsson, L., 807
Kobea, A., 301
Kobea, A.T., 515
Kodera, K., 125
Kolarž, P., 1357
Koldashov, S.V., 1448
Kone, E., 301
Kontani, K., 1031
Kosek, W., 1147
Koshelkov, Yu.P., 1388
Kosmidis, E., 1321
Kozlov, A., 1054
Kozlov, V.I., 397
Krankowski, A., 1147
Krasnov, V.M., 913
Krishna Murthy, B.V., 878
Krivolutsky, A., 105
Krivolutsky, A.A., 211
Križan, P., 119
Kshevetskii, S.P., 1014
Kudela, K., 907
Kumar, S., 581
Kuminov, A., 105
Kunze, M., 55
Kürschner, D., 229
Kushwah, V., 992

Labitzke, K., 45
Langematz, U., 55
Lara, A., 1697
Lassudrie-Duchesne, P., 301
Laštovička, J., 1, 83, 119
Lathuillere, C., 301
Lau, E., 1211
Laursen, S., 807
Lazo, B., 1859
Le Mouël, J.-L., 521
Ledenev, V.G., 1720
Leitinger, R., 1110
Lemaire, J.F., 719
Lepping, R.P., 283
Leroux, Y., 301
Levato, H., 1744
Li, Q., 853
Lilensten, J., 753
Liou, Y.A., 219
Liu, R., 1129
Liu, S., 1129
Llewellyn, E.J., 1395
Lloyd, N.D., 1395
Lotko, W., 939
Loureiro, J., 1315
Lucas, C., 595
Lüdi, A., 435
Luoni, M.L., 1734

MacDougall, J., 931
MacDougall, J.W., 1419
Machenhauer, B., 785
Madsen, F.R.H., 1674
Magun, A., 435
Makarov, N.A., 229
Makarova, L., 155
Mandrini, C., 1641
Mandrini, C.H., 145, 1734, 1744, 1761
Mansilla, G.A., 1687
Manson, A.H., 535
Manuel Ramos, F., 1843
Marchand, M., 293
Marinković, B.P., 1357
Marshall, R.A., 807, 1580
Martín Hernández, R., 1706
Martínez, G., 1744
Masugata, K., 1031
Matafonov, G.K., 1779
Materassi, M., 1085
Mathews, J.D., 275, 325, 1190
Matthes, K., 55
Mayr, H.G., 959, 981
Mazelle, C., 1797
McDonald, A.J., 1480
McMullin, D., 3
McPheat, R.A., 775
Medeiros, A.F., 1767, 1774
Mégie, G., 293
Meier, R., 1377
Meléndez Oliveros, B., 1706
Mendes da Costa, A., 1827
Mendes Jr., O., 1287, 1827
Mendillo, M., 345, 1377
Mendis, D.A., 1178
Mendonça, J.T., 1315
Mendoza, B., 1697
Mengel, J.G., 959, 981
Menvielle, M., 301
Merzlyakov, E.G., 229, 535
Meza, A., 315
Mihajlovic, S.J., 1118
Mika, A, 1580
Mika, A., 807
Miller, C.A., 325
Mininni, P., 1821, 1865
Miranda, R.A., 1852
Mitchell, C.N., 1085
Mitchell, N.J., 197, 535
Miyahara, S., 1533
Moore, T.E., 465
Morales, L.F., 1821
Morton, Y.T., 1245
Mosert, M., 1687
Moukassa, B., 515
Mukhtarov, Pl., 197
Mullayarov, V.A., 397
Muller, H.G., 197
Murashov, A.M., 1448
Mushtak, V., 553
Nair, P.R., 884
Nanbu, K., 829
Neubert, T., 807, 1580
Newmark, J., 3
Obrou, E., 301
Obrou, O.K., 515
Ogunade, S.O., 301
Ojeda, A., 1859
Oleynikov, A.N., 535
Oliveira Domingues, M., 1827
Ondrášková, A., 211
Onwumechili, C.A., 301
Oppenheim, M., 1171
Orús, R., 1598
Ovalle, E.M., 1876
Ovchinnikov, I., 1815
Ozolin, Yu., 155
Palacio Suárez, L., 1706
Pancheva, D., 197
Parameswaran, K., 884
Parker, G.D., 1403
Parrot, M., 677, 821
Patel, R.P., 1497
Pathan, B.M., 1751
Pavelyev, A.G., 219
Pavlov, A.V., 381, 862
Pavlova, N.M., 381, 862
Paznukhov, V., 1054
Pérez-de-Tejada, H., 1786
Perosino, M., 755
Perrin, J.-M., 449
Pesnell, W.D., 1238
Petitdidier, M., 301
Pezzopane, M., 1063
Pi, X., 1377
Picozza, P., 1448
Pinheiro, K.M., 1767
Pirjola, R., 701
Plank, G.E., 1480
Poddelsky, I.N., 397
Pokhotelov, O.A., 921
Popinski, W., 1147
Porter, H.S., 959, 981
Portnyagin, Y.I., 535
Portnyagin, Yu.I., 229
Prabhu, T.P., 623
Prasad, T.S.P.L.N., 251
Prestes, A., 1375
Pugacheva, G.I., 479
Radicella, S.M., 1566
Rai, J., 269, 1443
Raizada, S., 345, 1245
Rakov, V.A., 423
Rambo, K.J., 423
Ramos, F.M., 1365
Rasmussen, I.L., 807
Rastogi, R.G., 665
Ray, L., 1171
Redfern, M., 899
Rees, D., 301
Reinisch, B.W., 1054
Reisin, E.R., 145, 611
Rempel, E.L., 1837, 1852
ReVelle, D.O., 1159
Ridley, A., 1463
Rimbu, N., 1626
Rishbeth, H., 1377
Rivas Soriano, L., 1632
Rizzato, F.B., 1680
Roberto Fagundes, P., 1843
Roberto Rosa, R., 1843
Rodriguez Flores, E.R., 1728
Rodriguez Taboada, R.E., 1728
Rosa, R.R., 1365
Rosenberg, M., 1178
Rosenberg, T.J., 1876
Rothkaehl, H., 821
Rovira, M.G., 1744
Rozanov, E., 155
Ryazapova, S.S., 563
Saavedra, O., 755
Sahai, Y., 1365, 1843
Sahu, S.C., 623
Sambou, E., 301
Santos, J.C., 1751
Sanz, J., 1598
Sarafopoulos, D.V., 1427
Satheesan, K., 878
Sátori, G., 553, 807
Savio, S., 1859
Sawant, H.S., 1674
Scheer, J., 145, 611
Scherliess, L., 365, 1040, 1463
Schlueter, S., 1074
Schmutz, W., 155
Schuch, N.J., 479, 1375, 1751
Schunk, R.W., 357, 365, 489, 687, 1040, 1463
Scotto, C., 1063
Scrimaglio, R., 1448
Šekarić, J., 1357
Séran, E., 729
Sergeeva, M.A., 1618
Sgrigna, V., 1448
Shahee, M., 595
Sharma, D.K., 269, 1443
Sharma, R.D., 1519
Sharma, S., 581
Sharma, S.R., 413
Shepherd, M.G., 563
Shibata, K., 125
Shirochkov, A., 155
Shnirman, M.G., 521
Sifakis, N., 1524
Sigernes, F., 659
Singh, D., 637
Silva, L.O., 1315

Silverman, S.M., 749
Simões Júnior, F.J.R., 1680
Simonich, D., 191
Singh, A.K., 637, 1497
Singh, B., 992
Singh, K., 1497
Singh, R., 637
Singh, R.P., 637, 1497
Singh, V., 992
Siskind, D.E., 501
Slypen, I.N., 719
Smith, A.K., 739, 1216
Smith, S.M., 345
Snels, M., 293
Soares, A.C., 1674
Sobral, J.H.A., 1665
Sojka, J.J., 357, 687
Solovjova, T.V., 229
Sonnemann, G.R., 177
Sorasio, G., 1178
Sorokin, V.M., 921, 1259, 1269
Soula, S., 807
Sow, M., 301
Spjeldvik, W.N., 479
Stagni, L., 1448
Stanislawska, I., 1092, 1307
Stankov, S.M., 1074
Stendel, M., 785
Stepanova, M., 1658, 1815
Stepanova, M.V., 1876
Stevens, M.H., 501
Storini, M., 755, 907
Subrahmanyam, P., 269
Svoboda, A.A., 1533
Sych, R.A., 1720, 1779

Tadros, M.T.Y., 1343
Takahashi, H., 191, 611, 1767, 1774
Talaat, E.R., 959, 981
Talpos, S., 1626
Tanaka, H.K.M., 1544
Tantisattayakul, T., 1031
Tavares, M.D., 1691
Tepley, C., 345, 1245
Thejll, P., 785
Thuillier, G., 449
Tomas, C., 1632
Tong, L., 829
Toth, Z., 1524
Trivedi, N.B., 1751
Troshichev, O., 93, 1658
Troshichev, O.A., 33
Tsagouri, I., 1137
Tsui, K.H., 1691
Tu, J., 465

Uman, M.A., 423

Valdés-Galicia, J.F., 1697
van der Velde, O., 807
van Driel-Gesztelyi, L., 1734
Van Zele, M.A., 315
Vassal, J., 301
Vieira, I., 1315
Vieira, L.E.A., 1375
Vijayan, M.S.M., 623
Vila, P., 301
Visca, L., 755
Vlasov, M.N., 405
Vucina-Parga, T., 1815

Vystavnoi, V.M., 1618
Vyushkova, T., 105

Wang, G., 1129
Wen, C.-H., 275, 1190
Weng, H., 793
Wickert, J., 219
Wiensz, J.T., 1395
Wilken, V., 1074
Williams, E., 553
Wong, W.-H., 1178
Wrasse, C.M., 1665
Wu, C.-C., 283
Wu, H., 1720
Wu, J., 1129
Wu, Q., 739

Xu, J., 739, 1216
Xu, Z., 1129

Yan, Y., 1720
Yang, G.T., 605
Yaschenko, A.K., 1259, 1269
Yermolaev, Y., 1815

Zakharov, G.R., 1388
Zanini, A., 755
Zerefos, C.S., 1321
Zevgolis, D., 1524
Zhang, B., 1129
Zhou, Q., 325, 1245
Zhu, L., 687
Zolesi, B., 1053, 1092, 1137
Zubov, V., 155